

城市数据数据库文档

数据库概述

地址: 10.76.0.184:3306/mobiledata

用户名: root

密码: 123456

数据库名称: mobiledata

数据库表包括:

数据表	数据描述
blog	微博数据, 温州, 2014/01/14-2014/02/28
estate	房价数据, 56 条
osm_node	路网数据的位置信息, 根据 id 定位
osm_relationinfo	城市各道路关系, 根据 id 可查 member
osm_relationmember	城市关系的成员
osm_wayinfo	路网数据, 道路标签, 根据 id 查位置
osm_wayroute	路网位置数据
poi	POI 数据, 温州
taxi_traj	出租车轨迹数据, 温州, 2014/01/01-2014/01/31
weather	天气数据, 温州, 2014/01/01-2014/01/31

Java 连接代码

DBConfig.property:

```
driver=com.mysql.jdbc.Driver
url=jdbc:mysql://10.76.0.184:3306/mobiledata
username=root
password=123456
```

DButil.java

```
package Database_insert;
import java.io.IOException;
import java.sql.Connection;
```

```

import java.sql.DriverManager;
import java.sql.SQLException;
import java.util.Properties;

public class DBUtil {

    public Connection getConnection(){
        try {
            Class.forName("com.mysql.jdbc.Driver");
            return
DriverManager.getConnection("jdbc:mysql://10.76.0.184:3306/mobiledata",
                            "root","123456");
        } catch (ClassNotFoundException | SQLException e) {
            e.printStackTrace();
        }
        return null;
    }
    public Connection openConnection(){
        Properties prop=new Properties();
        String driver=null;
        String url=null;
        String username=null;
        String password=null;

        try {

            prop.load(this.getClass().getClassLoader().getResourceAsStream("DBConfig.property"));
            driver=prop.getProperty("driver");
            url=prop.getProperty("url");
            username=prop.getProperty("username");
            password=prop.getProperty("password");
            Class.forName(driver);
            return DriverManager.getConnection(url, username, password);
        } catch (IOException | SQLException | ClassNotFoundException e) {
            e.printStackTrace();
        }
        return null;
    }
    public Connection getConnection(String url,String driver,String username,
        String password){
        try {
            Class.forName(driver);

```

```

        return DriverManager.getConnection(url, username, password);
    } catch (ClassNotFoundException | SQLException e) {
        e.printStackTrace();
    }
    return null;
}

public void closeConnection(Connection con) throws SQLException{
    if(con!=null){
        con.close();
    }
}
}

```

典型的一个 main 方法中的连接为

```

BufferedReader in;

String sql="insert into estate
(id,city,type,name,latitude,longitude,area,price) values
(?,?,?,?,?,?,?,?)";

DBUtil util = new DBUtil();
Connection conn = util.openConnection();
PreparedStatement pstmt = null;
pstmt = conn.prepareStatement(sql);
conn.setAutoCommit(false);
String putin;
String[] split;
in = new BufferedReader(new InputStreamReader(new
FileInputStream("value.txt"), "unicode"));
while ((putin = in.readLine()) != null) {
    split = putin.split(" ");
    pstmt.setInt(1,Integer.parseInt(split[0]));
    pstmt.setString(2,split[1]);
    pstmt.setString(3,split[2]);
    pstmt.setString(4,split[3]);
    pstmt.setDouble(5,Double.parseDouble(split[4]));
    pstmt.setDouble(6,Double.parseDouble(split[5]));
    pstmt.setInt(7,(int)
Math.floor(Double.parseDouble(split[6])));
    pstmt.setInt(8,(int)
Math.floor(Double.parseDouble(split[7])));
    pstmt.addBatch();
}
}

```

```

    }
    pstmt.executeBatch();
    conn.commit();
    in.close();
    conn.close();

```

每一个表的详细情况及索引情况

Blog:

Column Name	Datatype
id	INT(11)
date	DATETIME(1)
userid	VARCHAR(45)
contect	VARCHAR(250)
location	VARCHAR(45)
latitude	DOUBLE
longitude	DOUBLE

```
mysql> show index from blog;
```

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
blog	0	PRIMARY	1	id	A	89198	NULL	NULL		BTREE		

Estate:

Column Name	Datatype
id	INT(11)
city	VARCHAR(45)
type	VARCHAR(45)
name	VARCHAR(100)
latitude	DOUBLE
longitude	DOUBLE
area	INT(11)
price	INT(11)

Osm_node:

Column Name	Datatype
id	VARCHAR(20)
version	INT(11)
changeset	INT(11)
timestamp	DATETIME
user	VARCHAR(45)
uid	INT(11)
latitude	DOUBLE
longitude	DOUBLE

Osm_relationinfo:

id	count	version	changeset	timestamp	tag
2050564	6	45	40044251	2016-06-15 19:29:01	k="route" v="road"
2050564	7	45	40044251	2016-06-15 19:29:01	k="type" v="route"
2050565	1	20	40492846	2016-07-05 07:13:29	k="alt_name:en" v="Jinhua-Wenzhou Railway"
2050565	2	20	40492846	2016-07-05 07:13:29	k="description" v="Railway connecting Jinhua ...
2050565	3	20	40492846	2016-07-05 07:13:29	k="name" v="金温铁路"
2050565	4	20	40492846	2016-07-05 07:13:29	k="name:en" v="Jinwen Railway"
2050565	5	20	40492846	2016-07-05 07:13:29	k="network" v="CN-railway"
2050565	6	20	40492846	2016-07-05 07:13:29	k="route" v="railway"

Osm_relationmember:

id	count	type	ref	role
408506	1	node	604295160	stop
408506	2	node	1895255836	stop
408506	3	node	639111380	stop
408506	4	node	1895255810	stop
408506	5	node	639111002	stop
408506	6	node	639110893	stop
408506	7	node	1895255830	stop

Osm_wayinfo:

id	count	version	changeset	timestamp	tag
10285130	1	6	37297356	2016-02-18 20:54:23	k="admin_level" v="5"
10285130	2	6	37297356	2016-02-18 20:54:23	k="boundary" v="administrative"
10285130	3	6	37297356	2016-02-18 20:54:23	k="natural" v="coastline"
10285130	4	6	37297356	2016-02-18 20:54:23	k="place" v="island"
10285130	5	6	37297356	2016-02-18 20:54:23	k="source" v="bing"
10286081	1	6	37403946	2016-02-24 04:03:35	k="source" v="PGS"
10286081	2	6	37403946	2016-02-24 04:03:35	k="waterway" v="riverbank"
10286082	1	7	18519306	2013-10-24 12:37:31	k="admin_level" v="5"
10286082	2	7	18519306	2013-10-24 12:37:31	k="boundary" v="administrative"

Osm_wayroute:

	id	count	latitude	longitude
▶	10283578	1	28.0323499	120.7055799
	10283578	2	28.03251	120.70732
	10283578	3	28.0330199	120.7070199
	10283578	4	28.03272	120.7050001
	10283578	5	28.0324699	120.7050001
	10283578	6	28.0323499	120.7055799
	10284250	1	28.0335393	120.7016549

Poi:

uid	name	type	longitude	latitude	city	address	tel
00003cbf0383a7354afc8dee	蜘蛛王	购物/商铺	120.54656219482422	27.584224700927734	温州市苍南县		null
0000545f7bf349ab2a02e132	加油站(顶村)	交通设施/加油加气站	120.2074966430664	28.303842544555664	205县道附近		null
00005c6d2441aaba045795	杭州余杭区二手物品回收公司	公司企业	120.30229949951172	30.433141708374023	浙江省杭州市余杭区星光街873号元通大厦3...	0571-69890837	
000067765815310e94ec84e7	北京城建三建设集团有限公司	公司企业/公司	121.5835952758789	29.882381439208984	中兴路138号明晨大厦12层		null
00006a4549ed1e13c51e5104	四明山居士顶高尔夫练习场	运动健身/体育场馆	121.3763427734375	29.871137619018555	宁波市鄞州区桃园路		null
00007c9f97c47b920bccdd91	中国体育彩票	生活服务/彩票销售点	120.25827026367188	30.85993194580078	吴兴大道150号附近	(0572)3176679	
000097fc2179eac57adb2bf	舟山乌石礁渔乡风情客栈(农家乐)	宾馆	122.40523529052734	29.931222915649414	舟山朱家尖乌石礁景区(渔乡风情客栈)		null
0000b6ab7f42ab4a047ce8c2	中共椒江区下陈街道工作委员会	政府机构/省级政府	121.44764709472656	28.594966888427734	镇前路8		null
0000dccc9e6022cfa4c3e596d	上阳金属五金厂	公司企业/厂矿	121.97111511230469	29.82085609436035	渔头影院附近		null
0000f126c8970567bd48422a	享当当中式快餐	美食/小吃快餐店	121.3589859008789	28.588665008544922	天台县路桥西路桥大道288号	(0576)82222202	
000100f7897cf8bc13293578	艺尚时尚美发会所	丽人/美发	120.21053314208984	27.330684661865234	宁德市福鼎市		null

mysql> show index from poi;

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
poi	0	PRIMARY	1	uid	A	862614	NULL	NULL		BTREE		
poi	1	Location	1	longitude	A	275836	NULL	NULL		BTREE		
poi	1	Location	2	latitude	A	844502	NULL	NULL		BTREE		
poi	1	poi_geo_index	1	longitude	A	292672	NULL	NULL		BTREE		
poi	1	poi_geo_index	2	latitude	A	793819	NULL	NULL		BTREE		

Taxi:

idTaxi_traj	Taxi_name	latitude	longitude	time	speed	ispassengerin	direction
1	浙C02668	28.026180267333984	120.59850311279297	2014-01-01 00:00:31.0	12	1	6
2	浙C02668	28.026050567626953	120.59761810302734	2014-01-01 00:01:01.0	7	1	4
3	浙C02668	28.02597999572754	120.59757232666016	2014-01-01 00:01:02.0	30	1	4
4	浙C02668	28.023849487304688	120.59652709960938	2014-01-01 00:01:32.0	29	1	4
5	浙C02668	28.02281951904297	120.59628295898438	2014-01-01 00:02:02.0	13	1	4
6	浙C02668	28.02281951904297	120.59628295898438	2014-01-01 00:02:32.0	0	1	4
7	浙C02668	28.021930694580078	120.59716796875	2014-01-01 00:03:02.0	15	1	2
8	浙C02668	28.02082061767578	120.60025024414062	2014-01-01 00:03:32.0	39	1	2
9	浙C02668	28.01905059814453	120.6029281616211	2014-01-01 00:04:02.0	39	1	2
10	浙C02668	28.017070770263672	120.6032485961914	2014-01-01 00:04:32.0	31	1	4
11	浙C02668	28.01474952697754	120.60227966308594	2014-01-01 00:05:02.0	32	1	4
12	浙C02668	28.014570236206055	120.6021728515625	2014-01-01 00:05:32.0	2	1	0

mysql> show index from taxi_traj;

Table	Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Null	Index_type	Comment	Index_comment
taxi_traj	0	PRIMARY	1	idTaxi_traj	A	361375616	NULL	NULL		BTREE		
taxi_traj	1	taxi_name_index	1	Taxi_name	A	479031	NULL	NULL	YES	BTREE		
taxi_traj	1	taxi_geo_index	1	latitude	A	1769272	NULL	NULL	YES	BTREE		
taxi_traj	1	taxi_geo_index	2	longitude	A	25363056	NULL	NULL	YES	BTREE		
taxi_traj	1	taxi_time_index	1	time	A	2531897	NULL	NULL	YES	BTREE		
taxi_traj	1	taxi_speed_index	1	speed	A	68480	NULL	NULL	YES	BTREE		
taxi_traj	1	taxi_geotime_index	1	latitude	A	1221627	NULL	NULL	YES	BTREE		
taxi_traj	1	taxi_geotime_index	2	longitude	A	19331398	NULL	NULL	YES	BTREE		
taxi_traj	1	taxi_geotime_index	3	time	A	361375616	NULL	NULL	YES	BTREE		

Weather:

id	date	hightemperature	lowtemperature	detail
1	2014-01-01	17	5	Clear to cloudy
2	2014-01-02	19	7	Cloudy
3	2014-01-03	18	9	Cloudy
4	2014-01-04	15	4	Cloudy
5	2014-01-05	14	5	Cloudy
6	2014-01-06	17	8	Cloudy
7	2014-01-07	13	10	Light rain
8	2014-01-08	10	5	Overcast to cloudy
9	2014-01-09	11	2	Cloudy
10	2014-01-10	12	6	Cloudy
11	2014-01-11	12	9	Light rain to overc...
12	2014-01-12	13	5	Overcast